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Amendments to the Claims:

The following listing of the claims shall replace all previous versions and listing of the claims in this application.

Listing of Claims:

1. (Currently Amended) A short-range wireless access point enabling a mobile wireless device to resume service with a network server after the wireless device moves out of the coverage area of the of the access point, comprising:

[[a)]] a server including transceivers for short-range wireless communication within a coverage area and with a network server;

b) a mobile device coupled to the server via a short-range communication link;

[[c)]] means <u>for</u> registering the mobile device when initiating proximity services with a service provider;

[[d)]] means <u>for</u> transmitting a code to the mobile device for identification purposes in short-range and network communications;

means for obtaining from the mobile device a wide area identification of the mobile device;

[[e)]] means <u>for</u> initiating a session for the mobile device with the service provider when within the coverage area; and

[[f]] means <u>for</u> maintaining the session with the service provider when the mobile device moves outside the coverage area;

wherein the code and the wide area identification are to be coupled into a hashed code for proximity identification of the mobile device, and wherein the hashed code is to be transmitted to the mobile device along with an instruction to forward the hashed code

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to the network server to associate the code and the wide area identification in a

subsequent request for service by the mobile device.

2. (Currently Amended) The short-range wireless access point of claim 1 further

comprising:

[[g)]] means for transferring the session to the network server when the mobile

device moves outside the coverage area.

3. (Canceled)

4. (Currently Amended) The short-range wireless access point of claim 1 further

comprising:

[[i)]] means for coupling the access point to the service provider via an

information network.

5.-6. (Canceled)

7. (Currently Amended) The short-range wireless access point of claim 1 further

comprising:

[[1]] a service provider incorporated within the access point; and

[[m)]] means for enabling the access point to contact the mobile device and

provide services via the short-range communication link when the mobile device is

within the coverage area or through a cellular network if the mobile device is outside the

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coverage area.

8. (Currently Amended) The short-range wireless access point of claim [[3]] 1 wherein

the <u>code</u> first identification is a MAC address and the <u>wide area</u> second identification is a

machine number for the mobile device.

9. (Original) The short-range wireless accesses point of claim 1 wherein the short-range

communication link implements Bluetooth protocols.

10. (Original) The short-range wireless accesses point of claim 1 wherein the network

server implements cellular protocols.

11. (Original) The short-range wireless access point of claim 4 wherein the information

network is the Internet.

12. (Currently Amended) A method in a short-range wireless access point for enabling a

mobile device to resume service with a network server, the service having been

interrupted by moving the mobile device out of the coverage area of the access point,

comprising[[;]]:

a) establishing a short-range communication link for initiating a service with the

mobile wireless device, wherein the short-range communication link is based on a first,

local area identification of the mobile wireless device;

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b) requesting from the mobile wireless device a second, [[an]] additional identification through the short-range communication link, wherein the requested identification relates to a wide area network identification of the terminal;

- c) receiving the additional identification from the mobile wireless device;
- d) determining whether the service with the mobile wireless device through the short-range communication link is open; [[and]]
- e) establishing wide area connection with the mobile wireless device using [[the]] a stored association in response to detecting that the short-range communication link is closed[[.]];

f) coupling the first and second identifications in a hashed code as a proximity identification of the mobile device; and

g) transmitting a message to the mobile device including the hashed code and instructing the mobile device to forward the message to the server for associating the first identification with the second identification in a subsequent request for service by the mobile device.

- 13. (Currently Amended) The method of claim 12 further comprising:
- [[f]] h) providing the access point with [[a]] the first and the [[a]] second identification of the mobile device.
- 14. (Currently Amended) The method of claim 12 further comprising:
- [[g)]] i) coupling the access point to the service provider via an information network.

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15.-16. (Canceled)

17. (Currently Amended) The method of claim 12 further comprising:

j) incorporating a service provider within the access point; and

k) enabling the access point to contact the mobile device and provide services via

the short-range communication link when the mobile device is within the coverage area

or through a cellular network if the mobile device is outside the coverage area.

18. (Original) The method of claim 13 wherein the first identification is a MAC address

and the second identification is a machine number for the mobile device.

19. (Original) The method of claim 12 wherein the short-range communication link

implements Bluetooth protocols.

20. (Original) The method of claim 12 wherein a network server implements cellular

protocols in establishing a wide area connection.

21. (Original) The method of claim 14 wherein the information network is the Internet.

22. (Currently Amended) A system enabling a mobile wireless device to resume service

with a network server after the wireless device moves out of a coverage area of an access

point, comprising:

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[[a)]] a hotspot server including transceivers for short-range wireless communication within a coverage area and with a network server;

- [[b)]] a mobile device including means for short-range communication and network communications;
 - [[c)]] means for coupling the hotspot server to a service provider;
- [[c)]] means stored in the mobile device for implementing short-range communications with the hotspot server when within the coverage area;
- [[d)]] means stored in the hotspot server for recognizing the mobile device when initiating short-range communication with the mobile device;
- [[e)]] means <u>for</u> registering the mobile device when initiating proximity services with the service provider, <u>said means for registering to obtain a first, local identifier</u>

 <u>associated with the mobile device and to request and obtain a second, network identifier</u>

 <u>associated with the mobile device;</u>
- [[f)]] means <u>for</u> transmitting a code <u>and a message</u> to the mobile device for identification purposes in short-range and network communications, <u>wherein the code comprises a hashed code formed from the first and second identifiers</u>, and <u>wherein the message comprises an instruction to the mobile device to send the code to the service provider to associate the first and second identifiers for a subsequent request for service;</u>
- [[g)]] means <u>for</u> initiating a session for the mobile device with the service provider within the coverage area; and
- [[h)]] means <u>for</u> maintaining the session with the service provider using the code when the mobile device moves outside the coverage area.

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23. (Currently Amended) The system of claim 22 further comprising: i) means for

coupling wherein said first identifier comprises a MAC address of the mobile device and

said second identifier comprises a cellular address number of the mobile device in a code

as an identificator of a subscriber of proximity services.

24. (Original) The system of claim 22 wherein the hotspot server is coupled to a backend

server.

25. (Original) The system of claim 22 wherein a service provider is incorporated within

the hotspot server and the server selects a first communication protocol to link with the

mobile device when the mobile device is within the coverage area and a second

communication protocol as a smooth handover when the mobile device leaves the

coverage area.

26. (Original) The system of claim 22 wherein the service provider continues a consumer

relation with the mobile device while out of the coverage area using the cellular address

number of the device.

27. (Original) The system of 22 wherein the services provider services are SMS/MMS

based.

28. (Original) The system of claim 22 wherein the service provider provides tailored

services to a mobile device.

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29. (Original) The system of claim 22 wherein the access point tracks and calculates

services used by a mobile device within a billing zone and sends the billing data to the

mobile device in a SMS message.

30. (Currently Amended) The system of claim 22[[.]] wherein the service provider

services are browser/J2ME based.

31. (Currently Amended) A method enabling a mobile wireless device to resume service

with a network server after the wireless device moves out of a coverage area of an access

point, comprising:

a) installing transceivers in a hotspot server for short-range wireless

communication within a coverage area and with a network server;

b) installing short-range communication and network communications means in a

mobile device;

c) coupling the hotspot server to a service provider;

[[c)]] d) storing in the mobile device means for implementing short-range

communications with the hotspot server when within the coverage area;

[[d]] e) storing in the hotspot server means for recognizing the mobile device

when initiating short-range communication with the mobile device

[[e]] f) registering the mobile device when initiating proximity services with the

service provider, including obtaining a first, local identifier associated with the mobile

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device and requesting and obtaining a second, network identifier associated with the mobile device;

[[f)]] g) transmitting a message, including a code, to the mobile device for identification purposes in short-range and network communications, wherein the code comprises a hashed code based on the first and second identifiers, and wherein the message comprises an instruction to the mobile device to send the code to the service provider to associate the first and second identifiers for a subsequent request for service;

[[g)]] h) initiating a session for the mobile device with the service provider when within the coverage area; and

[[h)]] i) maintaining the session with the service provider using the code when the mobile device moves outside the coverage area.

- 32. (Currently Amended) The method of claim 31 further comprising: i) coupling wherein said first identifier comprises a MAC address of the mobile device and said second identifier comprises a cellular address number of the mobile device in a code as an identificator of a subscriber of proximity services.
- 33. (Original) The method of claim 31 wherein the hotspot server is coupled to a backend server.
- 34. (Original) The method of claim 31 wherein a service provider is incorporated within the hotspot server and the server selects a first communication protocol to link with the mobile device when the mobile device is within the coverage area and a second

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communication protocol as a smooth handover when the mobile device leaves the

coverage area.

35. (Original) The method of claim 31 wherein the service provider continues a consumer

relation with the mobile device while out of the coverage area using the cellular address

number of the device.

36. (Original) The method of 31 wherein the services provider services are SMS/MMS

based.

37. (Original) The method of claim 31 wherein the service provider provides tailored

services to a mobile device.

38. (Original) The method of claim 31 wherein the access point tracks and calculates

services used by a mobile device within a billing zone and sends the billing data to the

mobile device in a SMS message.

39. (Currently Amended) The method of claim 31[[.]] wherein the service provider

services are browser/J2ME based.